

***National Type Evaluation Program  
Certificate of Conformance  
for Weighing and Measuring Devices***

**For:**

Indicating Element  
Digital Electronic  
Models: IQ+510-XY and IQ+710-XY\*  
 $n_{max}$ : 10 000

Accuracy Class: III/III L

**Submitted by:**

Rice Lake Weighing Systems  
230 W. Coleman St.  
Rice Lake, WI 54868  
Tel: (715) 234-9171  
Fax: (715) 234-6967  
Contact: Mark A. Erickson

**Standard Features and Options**

\*The X in the model designation represents enclosure type and will be 2 until another enclosure type is offered.  
The Y in the model designation represents input power and will be a letter, A: 115 VAC, B: 230 VAC

Semi-automatic (push-button) zero setting mechanism  
Automatic zero setting mechanism (AZSM)  
Initial zero setting mechanism (IZSM)  
Semi-automatic (push-button) tare  
4-20 mA Loop  
Gross/tare/net display  
Primary/secondary units, selectable by toggle switch  
Vacuum fluorescent display  
Alphanumeric display

Keyboard tare  
Remote printer capability  
lb/kg/g/oz/tons/metric ton unit capability  
RS 232 connector  
RS 485 connector  
Variable print format  
In/out vehicle weighing  
Remote keyboard

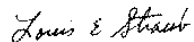
**Model IQ+710-XY includes the following additional features:**

29 key alpha-numeric keyboard  
8-setpoint with password protection  
100 vehicle identification memory registers  
Weight accumulation feature

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

This device was evaluated under the National Type Evaluation Program (NTEP) and was found to comply with the applicable technical requirements of Handbook 44, "Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: May 15, 1998



Louis E. Straub  
Chairman, NCWM, Inc.



G. Weston Diggs  
Chairman, National Type Evaluation Program Committee

Issue date: November 2, 1998

Note: The National Conference on Weights and Measures does not "approve", "recommend", or "endorse" any proprietary product or material, either as a single item or as a class or group. Results shall not be used in advertising or sales promotion to indicate explicit or implicit endorsement of the product or material by the NCWM.

This is a reissuance by the NCWM of a Certificate of Conformance already issued by the National Institute of Standards and Technology.

**Rice Lake Weighing Systems  
Indicating Element  
Models: IQ+510-XY and IQ+710-XY**

**Application:** A general purpose indicator to be interfaced with an approved compatible weighing element.

**Identification:** The capacity by division statement and, where applicable, the CLC will appear on an adhesive label on the front bezel plate of the indicator. The other required information appears on an adhesive label on the side of the indicator.

**Sealing:** A drilled head screw covers and prevents undetected access to a switch that must be depressed to enter the setup and calibration mode. It is on the upper right side of the back of the indicator. A wire security seal can be threaded through this screw head and to another drilled head screw that secures the back cover of the indicator.

**Test Conditions:** The Models IQ+510-XY and IQ+710-XY indicating elements were submitted for evaluation. The emphasis of the evaluation was on the device design, operation, and compliance with influence factor requirements. Several performance tests were conducted with one of the indicators interfaced with an approved scale base. Tests were also conducted using a load cell simulator. The indicator was tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). Additionally, tests were conducted using 100 VAC and 130 VAC power supplies.

The results of the evaluation indicate the devices comply with the applicable requirements of NIST Handbook 44.

**Type Evaluation Criteria Used:** NIST Handbook 44, 1998 Edition

**Tested By:** A. McCoy (OH), W. West (OH) 98-081